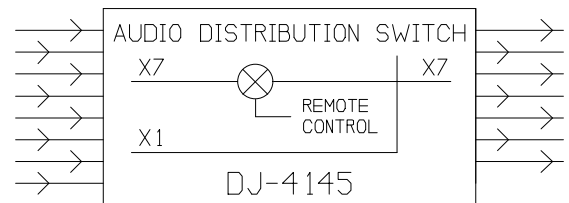


### DESCRIPTION

The DJ-4145 Audio Distribution Switch has eight active balanced inputs and seven active balanced outputs. Inputs one through seven route through a remotely controlled solid-state switch to an individual output. An additional COMMON Input is distributed and mixed to all seven outputs.

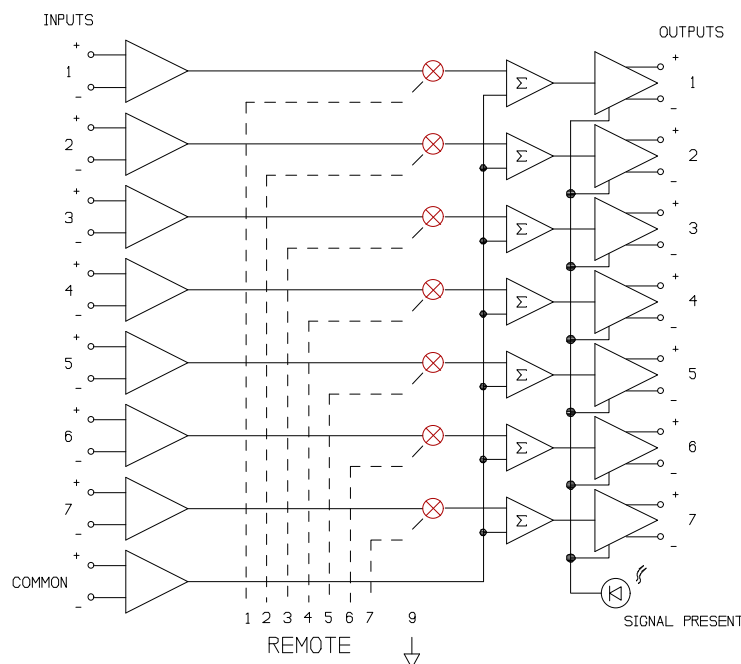
### DESIGN SYMBOL



### FEATURES

- Eight active balanced inputs
- Seven active balanced outputs
- Unity gain
- Remote switching of seven inputs
- COMMON input mixes to all outputs
- Clickless switching
- Low crosstalk
- Remotely controlled switching/mixing
- Priority override signal switching
- Signal present LED

### FUNCTIONAL DIAGRAM



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## APPLICATIONS

Many multi-zone paging systems and public address systems require the ability to inject continuous supervision tones through all amplifiers and loudspeakers. Supervisory signals and/or All Call paging signals can be connected to the COMMON input of the DJ-4145 for continuous distribution to all outputs. All Call paging signals so wired could be Emergency Announcements. Simple remote switching can cause Emergency Announcements to priority override all other signals to the outputs. In this application, every power amplifier will be preceded by an output from a DJ-4145. Selective zone paging systems with All Call can use the seven input switches for paging zone selection, with the COMMON input for the All Call signals.

## SPECIFICATIONS

LINE INPUTS .....	Standard System 41 active balanced
Impedance .....	82k $\Omega$ balanced, 41k $\Omega$ unbalanced
Maximum Input .....	+ 19dBV
LINE OUTPUTS .....	Standard System 41 active balanced
Impedance .....	200 $\Omega$ , for 600 $\Omega$ or greater load
Maximum Output .....	+ 19dBV, unloaded
GAIN .....	0dB (unity)
FREQUENCY RESPONSE* .....	+ 0dB, -0.5dB
THD* .....	less than .02% @ 0dBV output
EQUIVALENT INPUT NOISE* .....	-93dBV
INPUT SWITCH OFF ATTENUATION .....	greater than 80dB @ 1 kHz
CROSSTALK .....	less than -70dB @ 1 kHz
CURRENT CONSUMPTION .....	80 mA
MODULE SPACE .....	2 units, 2.4 inches

\* Measured over a 20 Hz - 20 kHz bandwidth

## ARCHITECT'S SPECIFICATIONS

An audio distribution control shall provide seven active balanced inputs, each routed through a remotely controlled ON/OFF switch to an individual active balanced output. An additional active balanced COMMON input shall be simultaneously distributed and mixed to each of the seven outputs. All switching of the seven inputs to the corresponding outputs shall be solid-state and shall be activated by remote dry-contact or open-collector closures to ground. Audible clicks shall not occur when switch settings are changed. Switch OFF attenuation shall be greater than 80dB @ 1 kHz. Gain shall be unity. Crosstalk between outputs shall be attenuated by greater than 70dB @ 1 kHz. Equivalent input noise shall be -93dBV, 20 Hz to 20 kHz. THD shall be less than 0.02% @ 0dBV, 20 Hz to 20 kHz. The outputs shall be monitored by a signal present LED. The audio distribution control shall mount in the IRP model DJ-4100, DJ-4101, or DJ-4150 mainframe. The distribution control shall be the IRP model DJ-4145 Audio Distribution Switch.

## ORDERING INFORMATION

Specify: DJ-4145, Audio Distribution Switch